

MIT's
Oldest and Largest
Newspaper

<http://tech.mit.edu/>



The Weather

Today: Sunny, 74°F (23°C).
Tonight: Clear, 55°F (13°C).
Tomorrow: Sunny, 76°F (24°C).
Details, Page 2

Volume 129, Number 32

Cambridge, Massachusetts 02139

Tuesday, September 1, 2009

Jag Patel, Antony Donovan Move In to Senior House

By Natasha Nath

STAFF REPORTER

The Tech recently met with Jagruti S. Patel '97, Antony N. Donovan '94, and their cat Tyler, interim housemasters of Senior House. Last week, they took over the office left by Henry and Cynthia Jenkins in May 2009, and will serve for the next one to two years.

The housemaster position at Senior House had been vacant since the May departure of Prof. Henry Jenkins for a position at the University of Southern California. In July, Dean for Student Life Chris Colombo rejected the choice of Senior House's housemaster selection committee, Walter R. Bender '80 and Wanda Bender.

Patel and Donovan applied to be interim housemasters because Senior House's community "meant a lot to us as undergraduates," they feel that the culture of the House is "open and accepting" and want to support it. Besides, they say that their "closest friends are alums of Senior House" and that they themselves met here during their time as undergraduates.

During the selection process, Patel and Donovan met with the housemaster selection committee as well as Colombo and "talked through the challenges of being housemasters." They also met informally with the Graduate Resident Tutors, the House Manager, and the residents of Senior House.

Patel and Donovan said that the meetings were a "fun part of the process" as they had already met many current residents during Steer Roast, Senior House's annual weekend-long party, this past May. Since Patel works at the Office of the Provost, they live in the area and have regularly attended Steer Roasts.

After their appointment, Patel and Donovan went through two days of GRT training. Last Tuesday, they moved into the Housemaster's suite

from their home in nearby Medford, Mass. After this, they were added to various e-mail lists and introduced to the house team of Senior House. They have been talking to Senior House residents at desk, as well as incoming freshmen and their parents; they also organized a freshman brunch last Sunday.

Henry and Cynthia Jenkins, the former housemasters, "extended a helping hand" when Patel and Donovan were appointed. The Jenkinses "offered to answer any questions we had," said Donovan.

"I'm delighted that they're taking that position," Henry Jenkins said. "They're a perfect match for Senior House."

Patel and Donovan were residents of Senior House when the Jenkinses were appointed housemasters in 1995; specifically, Patel was Desk Captain when the Jenkinses arrived, and played a large role in acclimating Jenkins to Senior House.

"To me, it has a poetic quality," Jenkins said. "Your students grow up and take over your position. It's like handing it off to a member of your family."

Patel and Donovan were also a part of the Senior House residents' panel that interviewed the Jenkinses at the time. Even after graduating from MIT, Patel and Donovan met and "chatted with the Jenkinses regularly over Steer Roast," they said.

Patel and Donovan have met with Dean Colombo a few times. They said that he "was a pleasant person" who dealt with them "in a straightforward manner." Colombo "talked about his experiences as a Housemaster," Donovan said.

He "seemed genuinely concerned about Senior House's culture," said Patel.

Colombo mostly wanted to know



CHRISTIAN J. TERNUS—THE TECH

The new Senior House housemasters, Jagruti S. Patel '97 (left) and Antony N. Donovan '94, met with The Tech last Friday in their housemasters' suite to discuss their new positions.

if they "could support the diversity of the students at Senior House," they said.

Steer Roast, Senior House's annual event where alumni come back to visit the house, has often had problems with the administration.

Patel and Donovan say that it is natural for "such a large party where such a large number of alumni come back" to have some complications. Even though there have been conflicts in the past, Patel and Donovan, as alumni "have always had a great time"

at Steer Roast, they said.

"You have to have someone in the job that appreciates the creativity, the wilder side of Senior House, while still being safe," Jenkins said.

At the last Steer Roast, Patel and Donovan met members of the administration who were "very impressed" with how it was run, "they weren't there to keep an eye, they were there to support Steer Roast," Donovan said.

For the next Steer Roast, Patel and Donovan hope that the residents of Senior House will talk to them freely

about how they want to organize the event. They want to keep "communication channels between the students and the administration clear." But most of all they want to help make the event safe and successful. "Student safety is paramount," they said.

The first week for Patel and Donovan as housemasters has been busy because of Freshman Orientation, but they expect things to cool down once Residence Exploration is over. They

Housemasters, Page 8

Dome Cocoon Comes Down in Dec. Media Lab E14 Move-In by October

By Maggie Lloyd

STAFF REPORTER

Construction to make the Building 10 dome weathertight continues through December, while the new Media Lab Extension prepares for new occupants in October, according

the 8th floor of building 10, which houses the Barker library stacks, said Senior Project Manager Joseph Collins.

This project is independent of the recently-completed refurbishment of Barker's reading room, which added new furniture, lighting, and carpeting to the popular study area.

Killian Court now stands against a backdrop of the overhaul as a white tarp has shrouded the landmark dome for the past six weeks.

Currently, workers are removing limestone from the structure in anticipation of the weatherproofing

process, Collins said. The white tarp will be removed starting in November.

Collins said that scaffolding will

Construction, Page 9



Small Fire in 36

A large printer/copier on the second floor of Building 36 began smoldering at 8:07 p.m. last Thursday night, according to MIT spokeswoman Jennifer F. Hirsch.

The Cambridge Fire Department responded.

No one was hurt in the incident, Hirsch said.

Hirsch described the incident as very small, but said that MIT and Cambridge Fire take such things seriously.

—Emily Prentice

In Short

Laverde's Market returns to 24x7 service starting Reg Day, Sept. 8. This time, the sub counter is included.

P.E. Registration starts Thursday at 10:00 a.m. No longer a lottery, it is first-come first-served, so program your web scripts accordingly. Pistol fills up first.

Russo's Produce Stand is in McDermott Court today, 12 noon to 6 p.m.

Send news information and tips to news@the-tech.mit.edu.

to MIT Facilities.

Work on the dome started five months ago, in response to continuing problems with water leaking into

The Great Dome is seen mid-afternoon from Killian Court as Facilities clean up after the official welcome to the Class of 2013 on Sunday. The dome, which has been kept under wraps for most of the summer, is currently undergoing renovation.



Comics



Page 5

Class of 2013
Orientation
and REX

Pages 6-7

OPINION

Maurer: Healthcare is a need, not a right.

Page 3

Corrections

Page 3

World & Nation 2
Opinion 4
Fun 5
Water War Photos 10
Daily Confusion 11
Sports 12

WORLD & NATION

Disney Will Buy Marvel for \$4B

By Brooks Barnes
and Michael Cieply

THE NEW YORK TIMES

The Walt Disney Co.'s surprise deal to acquire Marvel Entertainment for \$4 billion redraws the architecture of Hollywood and spotlights how the media giant has become more aggressive than its peers about growth.

Disney said on Monday that it would pay cash and stock to acquire Marvel, the comic book publisher and movie studio whose library of 5,000 characters includes some of the world's best-known superheroes: Spider-Man, the X-Men, Thor, Iron Man and the Fantastic Four.

The deal was valued at about \$50 a share, a 29 percent premium.

"Marvel's brand and its treasure trove of content will now benefit from our extraordinary reach," Robert A. Iger, Disney's chief executive, said in an interview. "We paid a price that reflects the value they've created and the value we can create as one company. It's a full price, but a fair price."

Montana Court to Weigh Claim of Right to Doctor's Aid in Dying

By Kirk Johnson

THE NEW YORK TIMES

HELENA, MONT.

Last year, even as lymphocytic leukemia was killing him, Robert Baxter, a 76-year-old retired truck driver from Billings, Mont., fought on. But by then he was struggling not for life, but for the right to die with help from his doctor.

"He yearned for death," said his daughter, Roberta King, in a court affidavit describing her father's final agonized months of life.

Now, in death, Baxter is at the center of a right-to-die debate that could make Montana the first state in the country to declare that medical aid in dying is a protected right under a state constitution.

The state's highest court on Wednesday will take up Baxter's claim that a doctor's refusal to help him die violated his rights under Montana's Constitution — and lawyers on both sides say the chances are good that his case will prevail.

After the Transistor, A Leap into the Microcosm

By John Markoff

THE NEW YORK TIMES

YORKTOWN HEIGHTS, N.Y.

Gaze into the electron microscope display in Frances Ross' laboratory here and it is possible to persuade yourself that Ross, a 21st-century materials scientist, is actually a farmer in some Lilliputian silicon world.

Ross, an IBM researcher, is growing a crop of mushroom-shaped silicon nanowires that may one day become a basic building block for a new kind of electronics. Nanowires are just one example, although one of the most promising, of a transformation now taking place in the material sciences as researchers push to create the next generation of switching devices smaller, faster and more powerful than today's transistors.

The reason that many computer scientists are pursuing this goal is that the shrinking of the transistor has approached fundamental physical limits. Sooner or later, new materials and new manufacturing processes will be necessary to keep making computer technology cheaper.

In the long term, new switches might be based on magnetic, quantum or even nanomechanical switching principles. One possibility would be to use changes in the spin of an individual electron to represent a 1 or a 0.

"If you look out into the future, there is a branching tree and there are many possible paths we might take," said Michael C. Mayberry, an Intel Corp. vice president and the director of the company's component research program.

Obama to Weigh Buildup Option in Afghan War

By Peter Baker
and Dexter Filkins

THE NEW YORK TIMES

WASHINGTON

A new report by the top commander in Afghanistan detailing the deteriorating situation there confronts President Barack Obama with the politically perilous decision of whether to deepen U.S. involvement in the eight-year-old war amid shrinking public support at home.

The classified assessment submitted Monday by Gen. Stanley A. McChrystal, who took over U.S. and NATO forces in Afghanistan in June, did not request additional American troops, U.S. officials said, but they added that it effectively lay the groundwork for such a request in coming weeks.

While details of the report remained secret, the revised strategy articulated by McChrystal in recent public comments would invest the United States more extensively in Afghanistan than it has been since U.S. forces helped topple the Taliban government following the attacks of Sept. 11, 2001. Taking a page from the 2007 strategy shift in Iraq, he

has emphasized protecting civilians over just engaging insurgents.

For Obama, who already ordered an additional 21,000 troops to Afghanistan this year, the prospect of a still larger deployment would test his commitment to a war he did not launch even as it grows more violent by the month. He already faces growing discontent among his liberal base, not only over the war but also over national security policy, health care, gay rights and other issues.

An expanded American footprint would also increase Obama's entanglement with an Afghan government widely viewed as corrupt and illegitimate.

Multiplying allegations of fraud in the Aug. 20 presidential election have left Washington with little hope for a credible partner in the war once the results are final. The latest tally, with nearly half of polling stations counted, showed President Hamid Karzai leading with 45.9 percent against 33.3 percent for his main opponent, Abdullah Abdullah, Reuters reported.

But the White House left open the possibility that Obama would

send more troops. "There's broad agreement that for many years, our effort in Afghanistan has been under-resourced politically, militarily and economically," Robert Gibbs, the White House press secretary, said Monday. He went on to use the word "under-resourced" six more times during his daily briefing.

The report comes after a sharp escalation of violence in Afghanistan, where more U.S. troops died in August than in any month since the beginning of the war. The military announced Monday that two U.S. soldiers died in separate attacks involving homemade bombs, bringing the total killed last month to 49, according to the Web site icasualties.org. The number of such attacks has nearly quadrupled since 2007, according to the Center for Strategic and International Studies.

"The situation in Afghanistan is serious, but success is achievable and demands a revised implementation strategy, commitment and resolve, and increased unity of effort," McChrystal said in a statement after sending his report to Gen. David H. Petraeus, the commander of all Middle East forces.

Unusual Wildfire Threatens Hundreds of Homes in Calif.

By Randal C. Archibald

THE NEW YORK TIMES

LOS ANGELES

A deadly wildfire that has burned for nearly a week in the foothills north of here threatened hundreds of homes on Monday and frustrated firefighters with its unusually rapid and unpredictable spread.

The fire, burning in rugged terrain at the foot of the San Gabriel Mountains about 20 miles north of downtown Los Angeles, has consumed more than 100,000 acres, or more than 150 square miles, about the size of the Bronx and Queens combined.

It has destroyed more than 20 homes, mostly in remote areas, but officials expected that tally to increase as 2,800 firefighters and support personnel struggled to track its erratic spread and keep flames from encroaching on large neighborhoods

and communities abutting the wilderness.

Crews were digging trenches and clearing brush on Monday as the northern reaches of the fire marched toward Acton, a community of 3,000 people about 40 miles north of downtown Los Angeles. New evacuations were ordered in the eastern San Fernando Valley area of Los Angeles.

The fire, whose cause is unknown, claimed the lives of two Los Angeles County firefighters on Sunday after their truck overturned as they tried to avoid a burst of fire bearing down on them. The men died from injuries suffered in the crash and from the advancing flames, the department said.

A few other people have been injured, including two people who refused orders to evacuate and sought cover from the flames in a backyard

hot tub as the fire barreled through the area, the authorities said.

Some 4,000 homes were ordered evacuated, but law enforcement authorities estimated only half of the people complied, preferring to stay behind to try to help save their homes.

Frank Bagheri, 48, who reluctantly left his home near La Canada-Flintridge on Sunday morning with his family, said he saw a few neighbors stay behind hosing down their lawns and houses. "We finally left because I stopped one of the firefighters running around our street," Bagheri said. "I wanted to ask him whether the fire would go the other way, or if we'd be OK. He just looked at me and said, 'You don't want to stay here and get trapped.' That phrase — stay here and get trapped — did it. I changed my mind at that point to leave."

WEATHER

El Niño Projected to Strengthen

By Elizabeth Maroon

STAFF METEOROLOGIST

As the student population returns to MIT, it hardly seems the time to be looking ahead to the end of the semester and beyond. However, meteorologists must be aware of the atmosphere's current patterns, and what can be expected to come; being aware of the climate in the next few months is both economically and socially advisable. For example, if drought is expected, farmers and economists alike can prepare for and hopefully mitigate any losses.

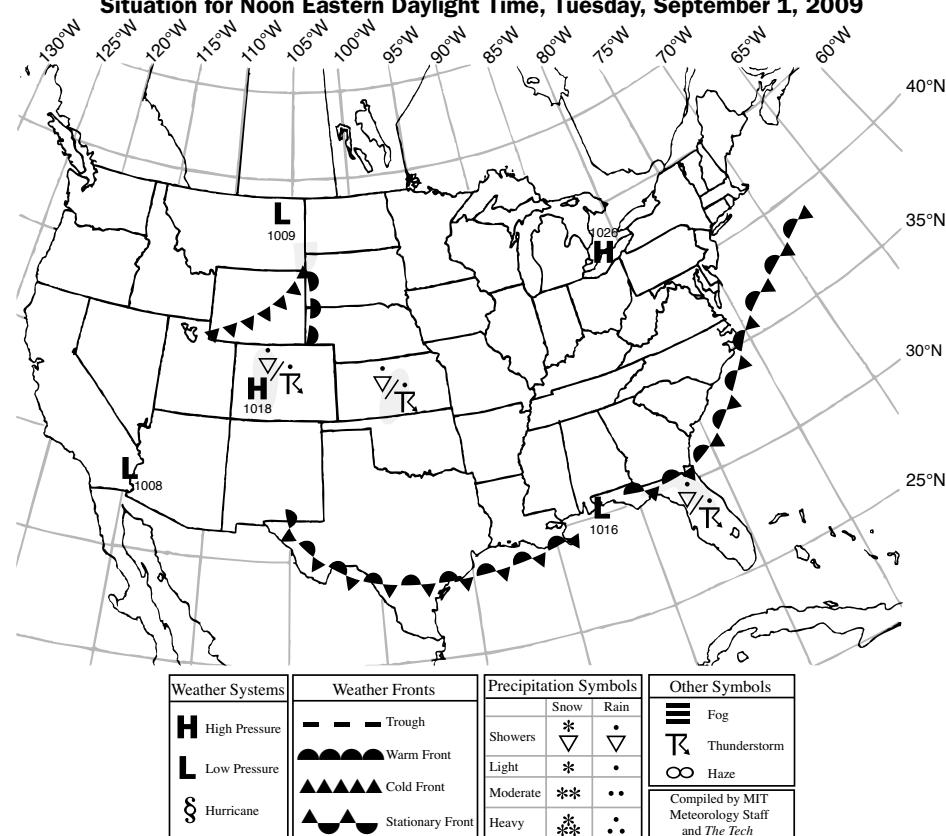
This summer, sea surface temperatures over the equatorial Pacific were 0.5–1.0°C warmer than normal, indicating weak El Niño conditions. Occurring every few years, El Niño has effects on the weather worldwide, and has been known to cause floods and droughts. It is also associated with a suppression of some Atlantic hurricanes, as it increases vertical wind shear in the tropical Atlantic and Caribbean. What does that spell for us here in Boston if this El Niño strengthens as many climate models are predicting? Potentially, we could have a warmer than usual winter. However, for those of you new freshmen from warmer regions, don't think that this means you can escape from buying winter clothes.

But while we wait to see how conditions in the Pacific are evolving, the weather in New England should be quite lovely for Orientation. High pressure currently over the Great Lakes will move over us for the next few days, bringing warm and dry conditions with it. Enjoy!

Extended Forecast

Today: Sunny with a high of 74°F (23°C).
Tonight: Clear skies with a low around 55°F (13°C).
Tomorrow: Sunny; high near 76°F (24°C).
Thursday: Sunny and slightly warmer with a high in the upper 70s°F (25°C) and low in the lower 60s°F (17°C).
Friday: Partly sunny, high in the upper 70s°F (25°C).

Situation for Noon Eastern Daylight Time, Tuesday, September 1, 2009



Japanese Opposition Wins Elections in a Landslide

By Martin Fackler

THE NEW YORK TIMES

TOKYO

Japan's voters cast out the Liberal Democratic Party for only the second time in postwar history on Sunday, handing a landslide victory to a party that campaigned on a promise to reverse a generation-long economic decline and redefine Tokyo's relationship with Washington.

Many Japanese saw the vote as the final blow to the island nation's postwar order, which has been slowly unraveling since the economy collapsed in the early 1990s.

In the powerful lower house, the opposition Democrats virtually swapped places with the governing Liberal Democratic Party, winning 308 of the 480 seats, a 175 percent

increase that gives them control of the chamber, according to national broadcaster NHK. The incumbents took just 119 seats, about a third of their previous total. The remaining seats were won by smaller parties.

"This has been a revolutionary election," Yukio Hatoyama, the party leader and presumptive new prime minister, told reporters. "The people have shown the courage to take politics into their own hands."

Hatoyama, who is expected to assemble a government in two to three weeks, has spoken of the end of American-dominated globalization and the need to reorient Japan toward Asia. His party's campaign manifesto calls for an "equal partnership" with the United States and a "reconsidering" of the

50,000-strong American military presence here.

One change on the horizon may be the renegotiation of a deal with Washington to relocate the U.S. Marine Corps' Futenma airfield on the island of Okinawa. Many island residents want to evict the base altogether.

The Democrats, who opposed the American-led war in Iraq, have also said they may end the Japanese navy's refueling of American and allied warships in the Indian Ocean.

The White House issued a statement on Sunday saying it was "confident that the strong U.S.-Japan alliance and the close partnership between our two countries will continue to flourish" under the new government.

Attorney General Plans Overhaul At Civil Rights Division

By Charlie Savage

THE NEW YORK TIMES

WASHINGTON

Seven months after taking office, Attorney General Eric Holder is reshaping the Justice Department's Civil Rights Division by pushing it back into some of the most important areas of American political life, including voting rights, housing, employment, bank lending practices and redistricting after the 2010 census.

As part of this shift, the Obama administration is planning a major revival of high-impact civil rights enforcement against policies, in areas ranging from housing to hiring, where statistics show that minorities fare disproportionately poorly. Presi-

dent George W. Bush's appointees had discouraged such tactics, preferring to focus on individual cases in which there is evidence of intentional discrimination.

To bolster a unit that has been battered by heavy turnover and a scandal over politically tinged hiring under the Bush administration, the Obama White House has also proposed a hiring spree that would swell the ranks of several hundred civil rights lawyers with more than 50 additional lawyers, a significant increase for a relatively small but powerful division of the government.

The division is "getting back to doing what it has traditionally done," Holder said in an interview. "But it's

really only a start. I think the wounds that were inflicted on this division were deep, and it will take some time for them to fully heal."

The changes that Holder is pushing through have led some conservatives, still stinging from accusations that the Bush appointees "politicized" the unit, to start throwing the same charge back at Obama's team.

The agency's critics cite the downsizing of a voter intimidation case involving the New Black Panther Party, an investigation into whether an Arizona sheriff's enforcement of immigration laws has discriminated against Hispanics, and the recent blocking of a new rule requiring Georgia voters to prove their citizenship.

Election Set to Fill Seat Left Vacant By Kennedy

By Abby Goodnough

THE NEW YORK TIMES

BOSTON

Amid fevered speculation about possible contenders for the late Edward M. Kennedy's U.S. Senate seat, Gov. Deval Patrick on Monday scheduled a special election for Jan. 19 and said he would keep pushing the state Legislature to change the law so he could name an interim successor.

Shortly before his death last week, Kennedy wrote legislative leaders asking them to revise the law so his seat would not stay vacant for months. The Legislature indicated Monday that it would decide quickly whether to grant his request, scheduling a public hearing on the proposal for Sept. 9. Many lawmakers criticized the proposal in the days before Kennedy's death, but legislative leaders, at least, have since hinted they would support it.

Excitement is running high about two possible candidates in particular: Victoria Reggie Kennedy, Kennedy's widow, and Joseph P. Kennedy II, his nephew. Victoria Kennedy is not interested in the seat, people close to the family said.

Joseph Kennedy, a former congressman from Massachusetts, has \$2 million in leftover campaign money. Friends say he is still considering whether to run.

Other possible contenders include Reps. Michael E. Capuano, Stephen F. Lynch and Edward J. Markey; state Attorney General Martha Coakley; and former Rep. Martin T. Meehan.

Europe's Limits on Incandescent Bulbs Start on Tuesday

By James Kanter

THE NEW YORK TIMES

BRUSSELS

Restrictions on the sale of incandescent bulbs started taking effect across most of Europe on Tuesday in the Continent's latest effort to get people to save energy and combat global warming. But even advocates concede the change is proving problematic.

Stores will no longer be allowed to buy or import most incandescent frosted glass bulbs starting on Tuesday. Retailers can continue to sell the bulbs until their existing stock runs out.

While some Europeans are jumping on the bandwagon, others are panicking and have been stockpiling the old-style bulbs for aesthetic or practical reasons. Still others are resigned to the switch, if grudgingly.

The new compact fluorescent lamps are billed as more economical because they use up to 80 percent less energy and do not burn out as quickly. One bulb can cost 10 euros, or \$14 — or a lot more, depending on type — whereas traditional incandescent bulbs cost about 70 cents each. But European Union officials argued that the energy savings would cut average household electricity bills by up to 50 euros a year, saving about 5 billion euros a year across Europe.

Not Enough Cyborg Bananas in Your Life? MIT Science Fiction Library

How Extensive Is the Library?

The MITSFS Library contains over 60,000 volumes, including more than 90% of all science fiction published in English.

Our Library has fantasy, speculative fiction, high-tech and a little horror, plus an almost complete collection of Analog, Asimov's, Tomorrow, Fantasy & Science Fiction, and dozens of other magazines.

We also stock thousands of non-English books and magazines, and have an extensive collection of books containing artwork based on worlds such as Discworld, Westeros, and Middle Earth.

MITSFS tries to buy a copy of every fantasy and science fiction book that comes out, and frequently gets books directly from the publisher even before bookstores do. Occasionally we receive galley proofs of a book before it's even finished.

Where Is the Library?

From the Student Center lobby, take the elevator to the 4th floor. Pick a hallway and follow it—one loop leads to the Library, the other to the Bibliowarfare Laboratory, a subset of the Library which has a map to point you in the right direction.

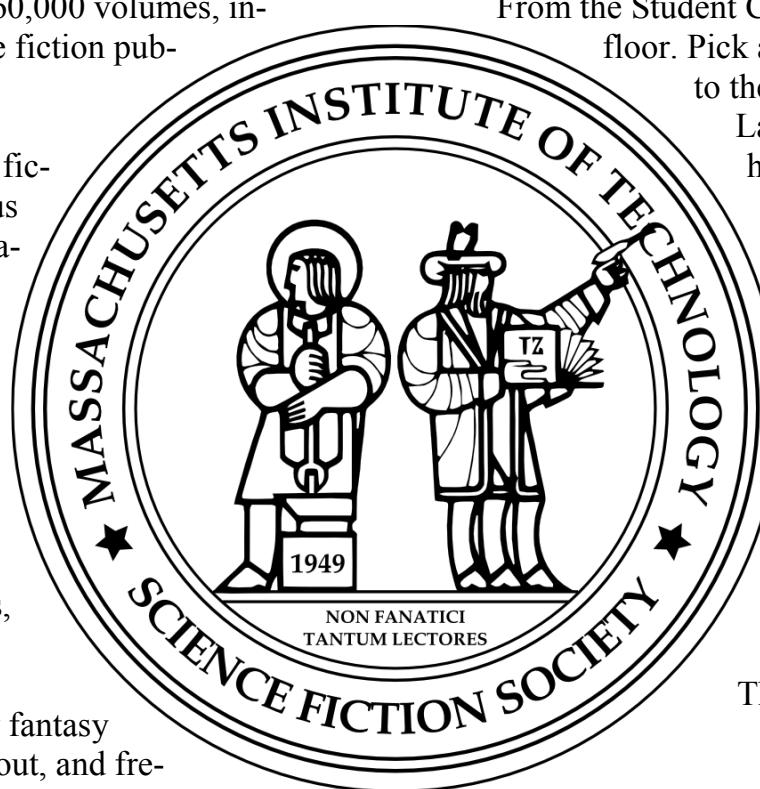
Okay. Give Me Specifics.

Anybody can visit the library to look at books, talk, ask for book recommendations or to just sit down with a good novel and read for a while.

Members can also take circulating books home—up to eight of them, for up to three weeks.

The cost of an annual Membership is less than the cost of two paperbacks

Visit web.mit.edu/mitsfs for more information and to check our schedule. MITSFS is volunteer-run and will be open extensively during and after Rush. See you there!



OPINION



Chairman
Austin Chu G
Editor in Chief
Nick Bushak '10
Business Manager
Mark Thompson '11
Managing Editor
Steve Howland '11
Executive Editor
Michael McGraw-Herdeg G

NEWS STAFF

News and Features Director: Arkajit Dey '11; **Editors:** John A. Hawkinson '98, Jeff Guo '11, Natasha Plotkin '11; **Associate Editors:** Emily Prentice '11, Elijah Jordan Turner '11, Pearle Lipinski '12, Robert McQueen '12; **Staff:** Daniela Cako '09, Joyce Kwan '10, Omar Abudayeh '12, Ziwei Hao '12, Jessica Lin '12, Meredith Lis '12, Maggie Lloyd '12, Ana Lyons '12, Camille Z. McAvoy '12, Sandhya Rawal '12, Zeina Siam '12, Aditi Verma '12; **Meteorologists:** Cegeon Chan G, Garrett P. Marino G, Brian H. Tang G, Angela Zalucha G, Elizabeth Maroon '10, Vince Agard '11.

PRODUCTION STAFF

Staff: K. Nichole Treadway '10, Alexander W. Dehnert '12; **Illustrator:** Robin L. Dahan '12.

OPINION STAFF

Editors: Joseph Maurer '12, Ethan Solomon '12; **Staff:** Florence Gallez G, Alejandro Rogers B. G, Gary Shu G, David Weinberg G, Keith A. Yost G, Josh Levinger '07, Krishna Gupta '09, Aditya Kohli '09, Jennifer Nelson '09, Daniel Yelin '10.

SPORTS STAFF

Editors: Aaron Sampson '10, David Zhu '12; **Staff:** Michael Gerhardt '12, Nydia Ruleman '12.

ARTS STAFF

Editor: S. Balaji Mani '10; **Staff:** Sudeep Agarwala G, Rosa Cao G, Bogdan Fedeles G, Joanne Y. Shih '10, Kevin Wang '10, Sun K. Kim '11, Maggie Liu '12, Samuel Markson '12.

PHOTOGRAPHY STAFF

Editors: David M. Templeton '08, Andrea Robles '10, Rachel Fong '12; **Staff:** Vincent Auyeung G, David Da He G, Perry Hung G, Maksim Imakaev G, Arthur Petron G, David Reshef G, Martin Segado G, Noah Spies G, Scott Johnston '03, Martha Angela Wilcox '08, Chelsea Grimm '09, Peter H. Rigano '09, Eric D. Schmidl '09, Seth A. Villarreal '09, Diana Ye '09, Biyeun Buczyk '10, Arka P. Dhar '10, Helen Hou '10, Monica Kahn '10, Diane Rak '10, Jongu Shin '10, Christian J. Ternus '10, Michael Yu '10, Dhaval Adjodah '11, Monica Gallegos '11, Dan Kubaczyk '11, Vibin Kundukulam '11, Michael Y. McCanna '11, Michael Meyer '11, Kari Williams '11, Allison M. Alwan '12, Yuanyu Chen '12, Andrew Shum '12, Meng Heng Touch '12.

CAMPUS LIFE STAFF

Editor: Michael T. Lin '11; **Staff:** Roberto Perez-Franco G, Danbee Kim '09, Sarah C. Proehl '09, Ben Shanks '09, Christine Yu '11; **Cartoonists:** Daniel Klein-Marcuscher G, Jason Chan '09, Michael Ciuffo '11, Ben Peters '11, Michael Benitez '12.

BUSINESS STAFF

Advertising Manager: Greg Steinbrecher '12; **Operations Manager:** Sherry Yan '11; **Staff:** Michael Kuo '10, Heymian Wong '10, Nikhil Sud '11, Connie Chan '12, Mengjie Ding '12, Eric Trac '12.

TECHNOLOGY STAFF

Director: Quentin Smith '10.

EDITORS AT LARGE

Contributing Editors: Caroline Huang '10, Jessica Witchley '10, William Yee '10; **Senior Editors:** Brian Hemond G, Charles Lin G, Andrew T. Lukmann G, Ramya Sankar G, Satwiksai Seshasai G, Shreyes Seshasai G, Benjamin P. Gleitzman '09, Ricardo Ramirez '09, Nick Semenkovich '09, Angeline Wang '09, Praveen Rathinavelu '10.

ADVISORY BOARD

Paul E. Schindler, Jr. '74, V. Michael Bove '83, Barry S. Surman '84, Robert E. Malchman '85, Deborah A. Levinson '91, Jonathan E. D. Richmond PhD '91, Karen Kaplan '93, Saul Blumenthal '98, Frank Dabek '00, Daniel Ryan Bersak '02, Eric J. Cholankeril '02, Jordan Rubin '02, Nathan Collins SM '03, Keith J. Weinstein '03, Akshay R. Patil '04, Tiffany Dohzen '06, Beckett W. Stern '06, Marissa Vogt '06, Zachary Ozer '07, Marie Y. Thibault '08, B. D. Colen.

PRODUCTION STAFF FOR THIS ISSUE

Editors: Austin Chu G, Greg Steinbrecher '12; **Staff:** Steve Howland '11.

The Tech (ISSN 0148-9607) is published on Tuesdays and Fridays during the academic year (except during MIT vacations), Wednesdays during January, and monthly during the summer by *The Tech*, Room W20-483, 84 Massachusetts Avenue, Cambridge, Mass. 02139. Subscriptions are \$50.00 per year (third class). **POSTMASTER:** Please send all address changes to our mailing address: *The Tech*, P.O. Box 397029, Cambridge, Mass. 02139-7029. **TELEPHONE:** Editorial: (617) 253-1541. Business: (617) 258-8324. Facsimile: (617) 258-8226. **Advertising, subscription, and typesetting rates available.** Entire contents © 2009 *The Tech*. Printed on recycled paper by Mass Web Printing Company.

Corrections

The caption supplied with an Aug. 28, 2009 photograph of Senator Edward M. Kennedy should have read "The late Senator Edward M. Kennedy is seen rallying the crowd at a Barack Obama campaign stop at the World Trade Center in Boston during the 2008 Democratic Primary fight on February 4, 2008." and should have been credited to Tech photographer David M. Templeton '08. A late-night photo switch without an accompanying caption switch caused the error.

The August 5 review of the Boston Symphony Orchestra's performance at the 2009 Tanglewood Music Festival incorrectly stated that Leon Fleisher lost control of his right hand to focal dystonia in the 1950s. In fact, Fleisher began battling focal dystonia in 1964.

The Daily Confusion published in Friday's *Tech* gave an incorrect date for the housemasters' welcome brunch. The event occurred on Sunday, August 30 at 12:30 p.m., not Saturday, August 29.

For Healthcare, Right Is Wrong

Joe Maurer

Life, liberty, and the pursuit of happiness are the basic, fundamental, and inalienable rights defined by the United States Declaration of Independence and safeguarded by the government. Take a minute to note that healthcare, emergency room treatment, and prescription medicines are notably absent from that list. So are a few other essentials for life: food and shelter.

Of course, even if the government doesn't provide your meal and your home, they provide many far less vital services — education and public parks, to name a few.

The question that lies at the heart of the healthcare debate, whether most people choose to acknowledge it or not, is whether healthcare falls under the first category of inalienable rights, the second category of essential needs that aren't provided for (food and shelter), or the third group of provided nonessential services (education and parks). Debating the specifics of President Obama's proposed healthcare reform is futile if this first, intrinsic question remains unanswered. But answering it requires knowing the reasons why the government does out its money, so let's begin.

The first group, inalienable rights, comprise the core tenets that make organized society possible for all. They define the boundaries that individuals act within before they encroach on the inalienable rights of their fellow men. At the most basic level, a government ensures that citizens are free, at all times and in all circumstances, to reach the limits of those boundaries. The corollary to this means that a government also ensures that no citizen encroaches upon the rights of another.

Those rights include life, that existence on Earth is mine, and that no one may take it from me without my consent. Liberty, that I am free to live my life unbridled, so long as I do not bridle others. The pursuit of happiness, which

gives direction and meaning to the first two rights. And from draft declaration, the right to private property.

Notice that in the enumeration of these rights there is no mention of force, compulsion, or mandates. Such concepts are in fact anathema to the basic freedoms protected by these rights. This is, traditionally, what constitutes a "right" — not a tangible physical quantity, but a guarantee to freedom. Hence, the right to the pursuit of happiness, not the right to happiness. Insurance and healthcare clearly do not fit neatly into this category.

Consider next the third group of nonessential government provided services. Education, fire departments, and public parks are all fund-

Food and shelter are necessary for human survival, but, like healthcare, they benefit only a single individual as opposed to society as a whole.

ed by some branch of the government. However, the reason for this has to do with the economic concept of an externality, not any moral obligation or righteous sense of purpose. All of society benefits from an educated populace, or when the fire department responds to keep my house from burning down my neighbors, or from the aesthetic benefits of a state or national park. The government either subsidizes or fully supports these activities to increase their prevalence and use. Indeed, as Cash-for-Clunkers has recently shown, people respond very well to economic incentives.

Universal healthcare, the key goal of the Obama plan and the reason given for its purpose, has little if any externality factor. As both the supporters and the detractors of the plan

have stressed, healthcare is an extremely personal affair. While I benefit when my neighbor's child learns history and how to read before he is of voting age, neither I nor society stand to substantially benefit if he receives a splint for his leg or a patch for his thumb. Moreover, remember that the purpose of any government subsidy or support (such as for education) is to encourage more of a desirable thing. No one with a medical ailment needs encouragement from a government to remedy their problem.

So that leaves us the second, thus far un-discussed category of truly essential services that the government does not provide for. Food and shelter are necessary for human survival, but, like healthcare, they benefit only a single individual as opposed to society as a whole. Without any positive externality to the rest of society, the government has no business in the housing or food markets, and current established excursions are simply matters of income distribution, robbing from the most productive taxpayers to give to the least. They serve no purpose other than fulfilling some sense of moral duty (or community, as Barack Obama has called it), and benefit only individuals, not society as a whole.

Like shelter, healthcare is not an innate right. It is a commodity to be purchased and valued like any other, because unlike the inalienable rights of liberty and life, healthcare cannot exist without the medical professionals that support it. Like anyone who values their work, they will demand a payment for their services, with the price being set by the demand for such a service.

Some claim that such a market based pricing scheme leaves the poor without access to healthcare. This is patently false. As a college student, a beachfront property in the Carolinas is far beyond what I can afford. However, access to that property is still universal, as anyone who wants it can walk into a realtor and pay for it. The same is true for healthcare. Not being able to afford something does not mean that you are discriminated against or that such a good or service is unfairly out of reach to you. It merely means that you need to be more useful to earn more money.

Comparing a luxury home to practical and basic health services may sound absurd, as human beings need healthcare far more than they need an ocean breeze. But this country was not founded on meeting the needs of its citizens. The inalienable rights guarantee only the freedom of thought and action. There is no guarantee to own property, but merely the guarantee of being able to claim ownership of earned property.

Calling healthcare a right is improper and debases the fundamental rights that make it possible for America to have the most advanced medical system on the planet. Healthcare is a need, not a right, and any attempt to give it to those who would not pay for it robs the productive of their right to property. To each according to his need may be a mantra, but it is not a very durable or proven one.

be given higher priority. Once submitted, all letters become property of *The Tech*, and will not be returned. Letters, columns, and cartoons may also be posted on *The Tech*'s Web site and/or printed or published in any other format or medium now known or later that becomes known. *The Tech* makes no commitment to publish all the letters received.

Guest columns are opinion articles submitted by members of the MIT or local community and have the author's name in italics. Columns without italics are written by *Tech* staff.

To Reach Us

The Tech's telephone number is (617) 253-1541. E-mail is the easiest way to reach any member of our staff. If you are unsure whom to contact, send mail to general@the-tech.mit.edu, and it will be directed to the appropriate person. You can reach the editor in chief by e-mailing eic@the-tech.mit.edu. Please send press releases, requests for coverage, and information about errors that call for correction to news@the-tech.mit.edu. Letters to the editor should be sent to letters@the-tech.mit.edu. The *Tech* can be found on the World Wide Web at <http://www-tech.mit.edu>.

Opinion Policy

Editorials are the official opinion of *The Tech*. They are written by the editorial board, which consists of Chairman Austin Chu, Editor in Chief Nick Bushak, Managing Editor Steve Howland, Executive Editor Michael McGraw-Herdeg, and Opinion Editor Andrew T. Lukmann, Joseph Maurer, and Ethan Solomon.

Dissents are the opinions of signed members of the editorial board choosing to publish their disagreement with the editorial.

Letters to the editor, columns, and editorial cartoons are written by individuals and represent the opinion of the author, not necessarily that of the newspaper. Electronic submissions are encouraged and should be sent to letters@the-tech.mit.edu. Hard copy submissions should be addressed to *The Tech*, P.O. Box 397029, Cambridge, Mass. 02139-7029, or sent by interdepartmental mail to Room W20-483. All submissions are due by 4:30 p.m. two days before the date of publication.

Letters, columns, and cartoons must bear the authors' signatures, addresses, and phone numbers. Unsigned letters will not be accepted. *The Tech* reserves the right to edit or condense letters; shorter letters will



September 1,
2009

COMICS FUN PAGES

Page
5

The
Tech

Steal My Comic

by Michael Ciuffo

College Tip

#197

Your popularity is directly proportional to the size of your laptop's speakers.

Shop accordingly.



Archives of past Steal My Comics — in color! <http://stealmycomic.com/>

Sudoku

Solution, page 9

				1			9	8
			9				4	1
	9	4			7		2	
5					9	2		
7			3		1			9
	8	2					6	
	7		6			1	3	
4	2				8			
6	1			3				

Instructions: Fill in the grid so that each column, row, and 3 by 3 grid contains exactly one of each of the digits 1 through 9.

Doonesbury

BY GARRY TRUDEAU

Dilbert® by Scott Adams

Crossword Puzzle
Solution, page 9

ACROSS

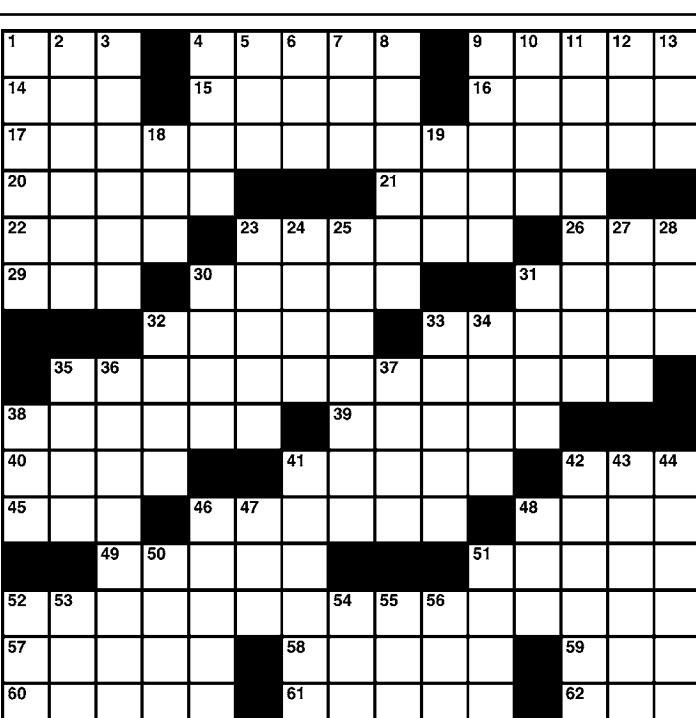
- 1 Joplin piano piece
- 4 Witch trials town
- 9 Like a disreputable hotel
- 14 www address
- 15 Pic
- 16 Knight's protection
- 17 Magician's deception
- 20 Kept in reserve
- 21 Dewy
- 22 Eve's first home
- 23 Really smart people
- 26 Cubes in a freezer
- 29 Old salt
- 30 Investigation
- 31 Read, as a bar code
- 32 Southern breakfast side
- 33 Concurrence
- 35 Magician's deception
- 38 Very brief briefs
- 39 Take in or let out
- 40 Improve, as skills
- 41 Apple beverage
- 42 __ room: play area
- 45 Lamb's mom
- 46 Like the person in a diet ad "after" picture
- 48 Equipment
- 49 "Grrr!" is one
- 51 It's enough for Luigi
- 52 Magician's deception
- 57 Finish second, in a race
- 58 Inventor Howe
- 59 Payable
- 60 Natives of Ankara
- 61 Like oboe music
- 62 Little green men, briefly

3 Danny of "Lethal Weapon" films

- 4 Floored it
- 5 "I have the answer!"
- 6 Chaney of film
- 7 Takeoff approx.
- 8 Christina Crawford's "Dearest"
- 9 Wrapped garments seen in Agra culture
- 10 Says "2 x 2 = 5," say
- 11 :-), e.g.
- 12 Palme __: Cannes film prize
- 13 12-mo. periods
- 18 Barbie's boyfriend
- 19 Cyclotron bit
- 23 Naval jails
- 24 __ IRA
- 25 Choose not to vote
- 27 "Pick a __, any ..."
- 28 See 38-Down
- 30 Holier-than-thou type
- 31 Surgery reminder
- 32 Wilder or Hackman

33 Subsequent to

- 34 "Moonstruck" Oscar winner
- 35 Magic act, for one
- 36 Texas symbol
- 37 Ye __ Tea Shoppe
- 38 With 28-Down, novel conclusion
- 41 Square dance leader
- 42 Live (at)
- 43 Take the family to a restaurant
- 44 Building site giants
- 46 Shoestrings
- 47 The Gay Nineties, e.g.
- 48 "Fill 'er up" filler
- 50 Just in the __ of time
- 51 Occupied
- 52 Select, with "for"
- 53 Like "mice" and "men": Abbr.
- 54 Land in the Seine
- 55 Fib
- 56 Young guy





CHRISTIAN J. TERNUS—THE TECH



MICHAEL MEYER—THE TECH

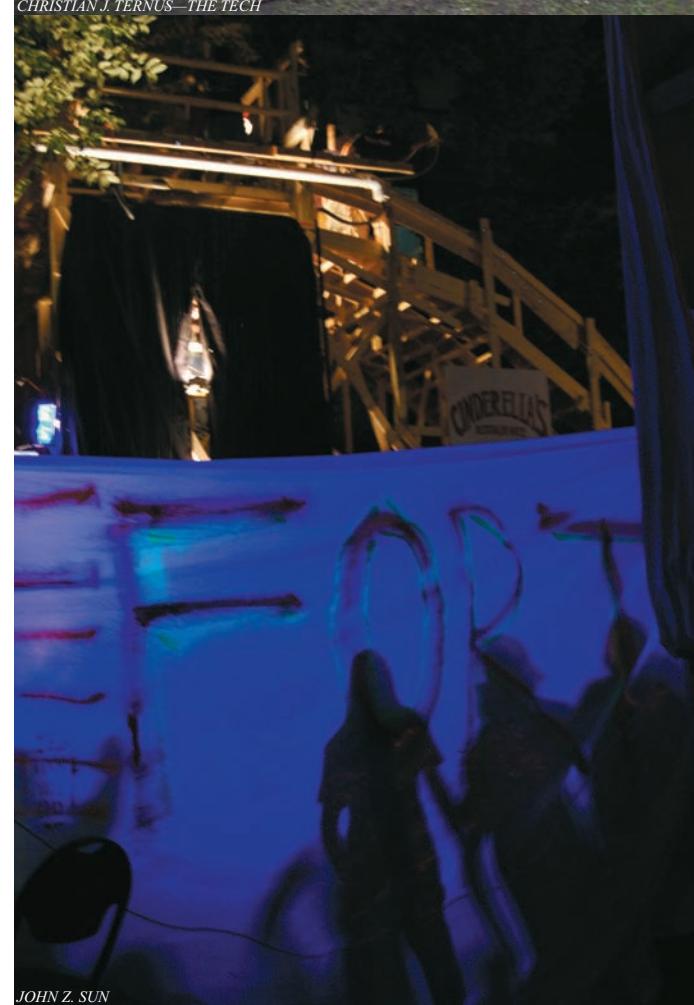
September 1, 2009



OMARI STEPHENS



OMARI STEPHENS



JOHN Z. SUN



CHRISTIAN J. TERNUS—THE TECH

Frosh Enjoy REX and Orientation

1. Joshua S. Bails '11 dances in front of EC's wall of CRT computer monitors on Aug. 30.
2. BC hosted Jell-O wrestling on Sunday. Opponents attempted to pin each other in a pool filled with green gelatin.
3. (clockwise from top-right) Amy Qian '11, Jack L. Jester-Weinstein '12, Itaru L. Hiromi '11, and Arka P. Dhar '10 (a *Tech* photographer) carry mattresses to the end of the EC roller coaster during testing on Aug. 30.
4. Late Saturday night, Peter P. Tieu '11 tests some holds after he finished mounting them for East Campus's 3D twister game.
5. Students party behind the EC dance tent during the East Side Party on Aug. 30.
6. Chao He '12, dressed as Willy Wonka, announces the victory of the orientation leaders in a game in a game during the Kickoff! orientation event on Sunday in Kresge.
7. Hundreds of freshmen and upperclassmen attended the East Side Party on Aug. 30 in the EC courtyard.
8. Kendra L. Pugh G grabs an East Campus "burning man" LED "thowvie" used as a decoration during REX on Aug. 30.
9. Freshmen play a game involved stuffing a bag with clothes and a person, then rolling

the combination to the finish line during the KickOff! event.

10. Jeffrey H. Huang '12 carries a rubber duck from Simmons to main campus during a game of "capture the duck" on Aug. 28. Players tried to find the other team's giant rubber duck while avoiding foam swords.
11. Frosh sit in the press box at Fenway during a tour sponsored by Simmons on Monday.
12. Freshmen and upperclassmen ride a wooden spinning structure in the EC courtyard during the East Side Party on Aug. 30.
13. Timothy E. Robertson '10 and Christopher P. Merrill '12 test "The Assfuck Twins" roller coaster during the East Side Party.
14. Elizabeth V. Power '10 paints letters for a tale about past East Campus rushes onto one of the many signs that EC prepared for Sunday night's East Side Party.

1	2	3	4
5	6		7 8
9	10		13 14
11	12		



CHRISTIAN J. TERNUS—THE TECH



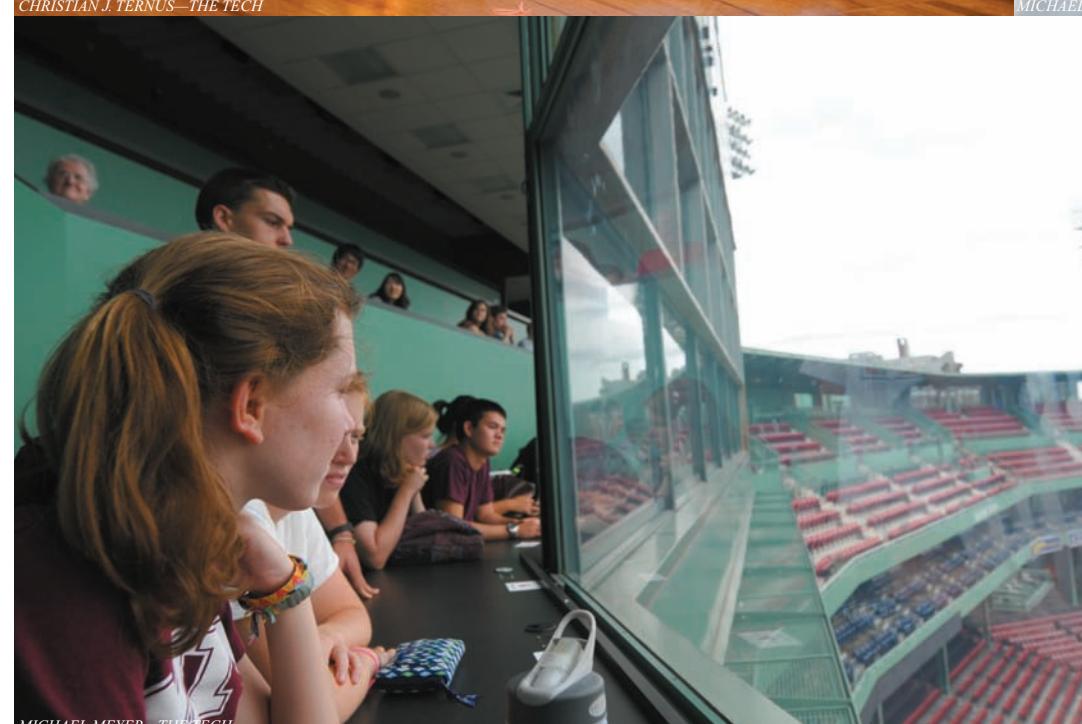
MICHAEL MEYER—THE TECH



MICHAEL L. MCCANNA—THE TECH



CHRISTIAN J. TERNUS—THE TECH



MICHAEL MEYER—THE TECH



JOHN Z. SUN



MICHAEL L. MCCANNA—THE TECH



OMARI STEPHENS

AFTER YEARS OF BUILDING RIDES, THE DENIZENS OF EAST GOT A BIT COOKY. THEY DREW THE MOST EPIC COASTER AT CAMBRIDGE LAWN. THIS 20 FOOT TALL MACHINE, FROM TALBOT INTO THE VOLLEY AS FURTHER DEFENSE TO THE COMBINE, THEY PLANNED TO HANG THE RIDER BELOW TRACK SUPERMAN STYLE.

First, Desk Captain Next, Housemaster: Senior House's Patel

Housemasters, from Page 1

are not yet sure how many hours of work they will have to put in over the term or the details of what their job will entail. They say that they "still have a lot to learn."

For Patel and Donovan, returning to Senior House after being residents during their time as undergraduates "is like coming back home, except that now we have private bathrooms," Patel said.

Patel gave *The Tech* a tour of her huge kitchen, equipped with a giant and "quite intimidating" refrigerator,

she said they loved cooking and were excited to cook meals for the residents of Senior House. Patel, Donovan and black-and-white striped Tyler are looking forward to "the adventure that lies ahead" and are "confident that there are a lot of benefits in interacting with such a diverse community of students."

Patel and Donovan "have a lot of fond memories of Senior House" and want to "celebrate its traditions." They also want to "help the students with their plans for Senior House." "Senior House is what the students make of it," they said.

Royal Bengal

Boston's only authentic Bengali Cuisine restaurant

Open Daily Except Monday
11:30 am - 11:30 pm
Lunch Buffet \$7.95
Reasonably Priced Dinners

313 Mass. Ave., Cambridge

(617) 491-1988

T: Red Line, Bus #1 - Central Square

10% Discount on \$15
(or more) order with MIT ID.

Free delivery for orders over \$10.
Take-out, platters, and catering available.
<http://www.royalbengalrestaurant.com/>



CHRISTIAN J. TERNUS—THE TECH

East Campus residents and other freshmen ride a wooden spinning structure in the EC courtyard on Aug. 30. The ride was constructed by dorm residents for REX.

Call SIPB with questions at x3-7788!

Ask SIPB

Drop by our office
in W20-557!

This week's column covers electronic communication at MIT — e-mail, mailing lists, and zephyr.

Mailing lists are used for all sorts of things here, and IS&T has placed a large amount of control over mailing lists in the hands of students — we can even create our own mailing lists! Whether you want to get access to loads of free stuff (reuse@mit.edu and free-food@mit.edu), or want to follow the latest on your dorm's discussion list (ask your neighbor if you don't know already), you'll need to deal with mailing lists in some form.

How do I get to my e-mail?

Starting this year, new students are given e-mail accounts on a mailserver running Microsoft Exchange, as opposed to the traditional Cyrus/IMAP mail servers. This allows for better integration of e-mail and calendaring with Outlook clients, but also means that you access your mail in a slightly different way. For web access, use owa.mit.edu; for non-web clients, use either exchange.mit.edu or imap.exchange.mit.edu as the server (more on that in a later column).

How do I deal with all this spam?

Also new this year, MIT is switching its spam-filtering solution from the open-source SpamAssassin to Symantec's Brightmail Spam Quarantine. Instead of going to your inbox or some other folder, messages flagged as spam are sent to a quarantine server, and a daily spam summary is sent to your inbox. If any legitimate messages are flagged, you can click on a link to "release" them. To check the quarantine area between daily summaries, visit <https://mit-mailsec-cc.mit.edu:41443/brightmail> or just follow a link from one of the summary e-mails.

How do I manage my mailing lists?

There are two types of mailing lists in use at MIT, so the first step is to determine whether a list is a Moira list or a Mailman list. To test if a list is a Mailman list, try the command

```
athena% blanche -i listname
and see if it contains something like
reuse is a Mailman list on server
PCH/MIT.EDU
If there is no mention of Mailman in the output, then
the list is a Moira list.
```

Moira

Moira lists (also known as traditional or Athena lists) can be used as mailing lists, as well as to give a group of people access to web pages and Athena directories. From Athena, an easy way to access Moira lists is by using the mailmaint command, which brings up an interactive menu to navigate through the various options for Moira lists. At an Athena prompt, type

```
athena% mailmaint
If you have a web browser and MIT certificates, another way to manage your lists is by going to web-moira.mit.edu.
```

A more direct (but slightly more arcane) method is to use the blanche command. To add yourself to the "cluedump-announce" list, if your username is "joeuser", type:

```
athena% blanche cluedump-announce
-a joeuser
```

To delete yourself from the list, use "-d" instead of "-a"; to view the members of the list (if the list isn't hidden), just use the blanche cluedump-announce command.

If you want to create your own list, you can do so online at wserv.mit.edu/lc. Fill out a form, and the list will be available immediately for use with commands such as blanche. You can also use this website to create Mailman lists (see below).

Our November 22, 2002 column has more detail on manipulating Moira lists.

Mailman

Mailman lists are an alternative to Moira lists. They're less integrated with Athena, but they have a fancier web interface, including automatic list archives and the ability to hold messages for moderation or restrict sending to list members. To subscribe

or unsubscribe from a Mailman list, visit the website <http://mailman.mit.edu/mailman/listinfo/listname> (replacing *listname* with the name of the appropriate list, of course).

Hey, what's this window with a message that just popped up?

That would probably be a zephyr. Zephyr is Athena's instant messaging system, which displays both official Athena notifications and messages from friends. To send someone a zephyr, type the `zwrite` command followed by their username:

```
athena% zwrite joeuser
```

Type your message now. End with control-D or a dot on a line by itself.

```
Hi, what's up?
```

.

Message queued for joeuser... sent

But I can already do that with AIM, MSN, Gtalk, Facebook... Why should I use zephyr?

There are a couple of reasons. One is that Athena logs you in to Zephyr automatically, so it's a good way to talk to your friends when they're on Athena.

One of Zephyr's most compelling features is its multi-user chat support. In addition to sending messages to individuals, you can send messages to a particular "class" and "instance". In general, a class is like a chatroom, and an instance is a particular topic within that room. For example, if you want to subscribe to joeuser's "personal class":

```
athena% zctl add joeuser \* \*
```

(The first * indicates that you want to subscribe to all instances of class joeuser, and the second * indicates this is a group chat. Then, if you wanted to discuss, say, orientation with joeuser and other people subbed to his class, you would use

```
athena% zwrite -c joeuser -i orientation
```

Some commonly used public classes include "help", for asking various sorts of questions, "geek", for technical discussion, and "message", the default class (if you specify an instance and no class). In some situations, you may want to subscribe to just one instance of a class: for example, if you're asking a single question to class help, you can subscribe to that instance alone with, e.g., `zctl sub help zephyr *`.

An longer introduction to zephyr, as well as tutorial for the BarnOwl client (see below), is available at <http://sipb-www.mit.edu/doc/wiki/UsingZephyr>.

I don't like these windowgrams. Aren't there any other Zephyr clients?

Yes; one popular one, "BarnOwl," displays all your messages in a single terminal window. BarnOwl also has support for AIM and Jabber, so you can talk with all your friends from AIM, Google Talk, etc. with the same program you use for Zephyr.

To get started with BarnOwl, type `add barnowl` and then `barnowl` at an Athena prompt. This will bring up an empty message window with an introductory notice. You're already logged into Zephyr; to send a message, hit 'z' to start a `zwrite` command. If you want to subscribe to classes from within BarnOwl, type `:sub class instance *`. For more instructions on navigating the interface, hit 'h'; note that you can type a colon (:) to start a command.

To log in to AIM, type `:aimlogin username`; to use MIT's Jabber service, type `:jabberlogin username@mit.edu`. You can then send AIM messages with 'a' and Jabber messages with 'j'. To add friends to your Jabber buddy list ("roster"), type `:jroster sub username@service` — you can use both Gmail and MIT e-mail addresses here, as well as JIDs from any other Jabber service.

To ask us a question, send e-mail to sipb@mit.edu. We'll try to answer you quickly, and we can address your question in our next column. You can also stop by our office in W20-557 or call us at x3-7788 if you need help. Copies of each column and pointers to additional information are posted on our website: <http://www.mit.edu/~asksipb>

IST Information Services & Technology
Computing Help Desk

We are looking for students with good communication skills and basic computing knowledge to assist with problems over the phone and via email.

Start the application process 9/2 or 9/3 from 3:30-5:00p in N42
<http://ist.mit.edu/support/servicedesk/hiring>

MIT STUDENTS!!!

Do you want FREE theater, music & dance tickets?

Do you want to see great visual art for FREE?

Bookmark this page:

**WEB.MIT.EDU/ARTS/SEE/
FREETICKETS**

made possible by the Council for the Arts at MIT



The Media Lab's extension, pictured on Aug. 30, is nearing completion. FRANK M. YAUL

Scientists Lucky to Have Spotted Planet

By Kenneth Chang

THE NEW YORK TIMES

Were astronomers just lucky when they discovered the planet WASP-18b?

At first impression, the planet, described in the current issue of the journal *Nature*, fits a familiar profile for planets that have been discovered around other stars: big (about 10 times the mass of Jupiter), close to the parent star (about 1.9 million miles away, or just one-fiftieth of the distance between the Sun and Earth) and hot (3,800 degrees Fahrenheit). About one-quarter of the nearly 400 planets discovered so far have been such "hot Jupiters."

But as an international team of astronomers looked more closely, they became more surprised that they had seen WASP-18b at all. The tidal forces between a star and a planet dissipate energy, and WASP-18b is so close that it should fall into its host star in less than a million years — an eye blink on the cosmic scale. (Andrew Collier Cameron, a professor of astronomy at the University of St. Andrew and a member of the team, noted that with the impending fiery fate of the planet, it seemed appropriate that it was located in the constellation Phoenix.)

The star system is about a billion years old, the astronomers reported, so the chances that they observed WASP-18b on the cusp of oblivion is about 1 in 1,000.

In an accompanying commentary in *Nature*, Douglas P. Hamilton, a professor of astronomy at the University of Maryland, noted that

Solution to Sudoku								
from page 5								
2	5	6	4	1	3	7	9	8
3	8	7	9	2	6	5	4	1
1	9	4	5	8	7	6	2	3
5	3	1	8	6	9	2	7	4
7	6	2	3	4	1	8	5	9
9	4	8	2	7	5	3	1	6
8	7	5	6	9	4	1	3	2
4	2	3	1	5	8	9	6	7
6	1	9	7	3	2	4	8	5

Solution to Crossword								
from page 5								
R	A	G	S	A	L	E	M	S
U	R	L	P	H	O	T	O	R
S	M	O	K	E	A	N	D	M
S	A	V	E	D	M	I	R	R
E	D	E	N	B	R	A	I	N
T	A	R	P	R	O	B	E	S
G	R	I	T	S	A	C	C	R
S	L	E	I	G	H	O	F	H
T	H	O	N	G	S	A	L	T
H	O	N	E	C	I	D	R	E
E	W	E	L	E	A	N	E	R
S	N	A	R	L	B	A	S	T
O	P	T	I	C	L	I	L	L
P	L	A	C	E	U	S	S	U
T	U	R	K	S	E	D	Y	E

New E14 Nearly Done

Construction, from Page 1

be removed by December.

Media Lab Extension Continues

On the east side of campus, construction of the \$90 million Media Lab Extension has been progressing on schedule and under budget despite initial financial troubles.

Media Lab groups will begin moving into building E14, the extension of the Wiesner Building (E15), along with groups from the School of Architecture and Planning in the last week of October.

Originally designed within the

Evolving Campus Capital Program a decade ago, the Media Lab project was put on hold in 2002 due to insufficient fundraising. Work was stalled until 2006, when plans were updated to current codes and Bond Brothers became the project's general contractor.

Featuring designs from the award-winning Japanese architect Fumihiko Maki, who teamed up with local firm Leers Weinzapfel, the new building will include seven labs with double-height area to provide open space. Each lab's floor will lie at a different height in the building, creating a "stair-step" floor plan.

Eating Disorder Treatment

Treatment of Adults Suffering from Anorexia and Bulimia Nervosa



Informed clinicians refer their clients to Laurel Hill Inn. LHI provides the most effective treatment and deploys the highest staff-to-client ratio in New England. We provide extensive programming in a highly structured and supervised non-institutional therapeutic setting. Evening, day, and residential treatment as well as weekly support groups in West Medford and West Somerville. Call Linda at 781 396-1116 or visit www.laurelhillinn.com.



A new series of two half-semester classes on Supply Chain Strategy

ESD.931 & ESD.932

Thursdays 12:30 – 2:30 pm / Room E51-361

We invite you to enroll in two brand-new half-semester courses on supply chain strategy, being offered this Fall for the first time. These courses are designed and taught to impart hands-on experience with the frameworks and tools developed by MIT Center for Transportation and Logistics Supply Chain 2020 project team.

ESD.931 Supply Chain Strategy: Evaluation and Improvement (Units: 1-0-2; Ends Oct 15). Students will learn frameworks and tools to capture, evaluate and enhance the fit between a firm's current business strategy, its supply chain strategy and its operations.

ESD.932 Supply Chain Strategy: Preparing for the Future (Units 1-0-2; Starts Oct 22) Students will learn a systematic approach for enhancing a firm's long term supply chain strategy and prepare it for an uncertain future punctuated by step change.

Instructor: Dr. Mahender Singh, Director of SC2020.

SC2020 is a multi-year research effort in close collaboration with industry partners. For more information, visit: www.sc2020.net

APPLY
for a
Council for
the Arts
Grant ↗

Application deadline:

September 25, 2009

Contact:

Susan Cohen
cohen@media.mit.edu

Application:

web.mit.edu/arts/do/funding/grantguide.html
web.mit.edu/arts/do/funding/grantguide.html
web.mit.edu/arts/do/funding/grantguide.html
web.mit.edu/arts/do/funding/grantguide.html
web.mit.edu/arts/do/funding/grantguide.html
web.mit.edu/arts/do/funding/grantguide.html

PEOPLE. PASSION. RESULTS.



We enjoy what we do—delivering real, measurable results that make our clients and our people more valuable.

We invite all Juniors and Seniors to attend

Fall Presentation

Date: Tuesday, September 8, 2009

Time: 7:00 p.m.

Place: Le Meridien

MIT Career Fair

Date: Thursday, September 17, 2009

Time: 10:00 a.m. – 6:00 p.m.

Place: Johnson Athletic Center

We remind you that the resume submission deadline is **October 4, 2009**. First round interviews will be held on-campus on **October 13, 2009**.

www.joinbain.com

BAIN
& COMPANY



The East Battles the West in the Annual Water War

The East vs. West water war took place Saturday, Aug. 29 on Kresge Oval.

(counter-clockwise from bottom right)

East campus water war combatants parade down Memorial Drive on their way to the battleground.

Katheryn D. French '11 beats the battle drum as east campus marches into battle.

Generals Daniel J. Sauza '11 of West Campus (left) and James A. Ostrowski '10 of East Campus

(right) shake hands before the start of the Water War.

West campus's forces prepare to battle the east campus army.

The east campus army charges at the west campus' forces.

East campus wheels out one of their weapons, a giant water-squirting penis.

Photography by Sophie Clayton



daily

confusion

Residence EXploration 2009

**Tuesday,
September 1, 2009**

00:00

00:00—**Simmons Hall**—Midnight Ball Pit Wars - Admit it, it's the first thing you thought of when you heard that Simmons has its own McD's-style ball pit. Build forts and stockpile weapons as you conquer enemy territory, or just toss balls at your friends to distract them from empire-building.

01:00

01:00—**Burton Conner**—Midnight Capture the Flag -- Glow sticks included. [turf]

03:00

03:17—**Random Hall**—RHOP: Random House of Pancakes: I'm a delicious warm pancake smothered in maple syrup. Bite me.

08:00

08:00—**Next House**—Yes, even more breakfast is on the way! Be sure to get your tummy's worth on the last day of REX.

08:00—**Ashdown House**—Breakfast: Come hang out with the Phoenix Group and enjoy some breakfast while you're at it!

09:00

09:00—**Baker House**—Breakfast at Baker: Re-energize yourself with a great breakfast at Baker House, and prepare yourself for another day of orientation. (Baker House Dining Hall)

10:00

10:00—**Next House**—Release the kid in you, through flying kites and blowing bubbles of all shapes and sizes. Come relax and have some fun in the sun!

10:00—**Das Deutsche Haus**—DH Tours and snacks

10:00—**Burton Conner**—Breakfast -- You gotta eat! [tv lounge]

10:00—**New House**—Morning Fiesta/Siesta (10 AM – 12 PM): New House is a very diverse community, and with that comes the advantage and ability to have fiestas (and siestas) whenever we want to. Join us for this one-nachos, salsa, and piñatas all around!

10:00—**Ashdown House**—Dorm Tours: A tour guide will be waiting for you at the Student Center (with a big sign that says NW35) to take you to NW35, the newest dorm.

10:17—**Random Hall**—Make your own donuts: Who needs Dunkin' Donuts anyway? Come to Random Hall and make your own custom fried models of our dorm! (No plastic spatulas allowed.)

11:00

11:00—**Simmons Hall**—Baking and Chick Flicks - Spend some time in Simmons' country kitchen with Sarah and Christina. Then sit down and enjoy with a girly movie in the Night Cafe.

11:17—**Random Hall**—Sock-Puppet Literary Classics: What happens when you take sock puppets, literary classics, and a fifteen minute time cap? Hilarity. Come witness your (least?) favorite characters from high school English subjected to our whims.

12:00

12:00—**Senior Haus**—BACON BACON BACON BA-

15:47—**Random Hall**—Preten-

CON @ Senior Haus 1st Floor Kitchen. BACON? BACON, BACON BACON! BACON. (BACON BACON.) Also: coffee. Again. Again. Again.

12:17—**Random Hall**—On the construction of dumplings: For ages, engineers have puzzled over the construction of dumplings. What is the ideal ratio of filling to skin? What is the proper catamorphism that will result in maximum structural integrity? Come make dumplings. Then eat them.

13:00

13:00—**Das Deutsche Haus**—A German Movie, because everyone knows how to speak German (English subtitles included).

13:00—**New House**—Origami (1-2 PM): Whether you're a long-time fan of the art or just a newcomer, join us in the New House 5 lounge for an hour of origami, the Japanese art of paper-folding.

13:00—**New House**—Your favorite event from Saturday is back!

Too many events going on all at once got you stressed out? Come relax and watch some TV with New House 2. Choose from a selection of shows including The Boondocks, House, The Office, True Blood, Arrested Development and The Wire.

13:17—**Random Hall**—Scavenger Hunt: Bring a camera, team up, explore MIT, and embark on a journey to discover your True Self while collecting random junk along the way. Prizes for the winning team included!

13:47—**Random Hall**—Awesome Anime Music Videos: AMVs, much like the internet, are 95% dross and 5% awesome. We've got that 5% triple distilled into its purest form. Come enjoy.

14:00

14:00—**Ashdown House**—Dorm Tours: A tour guide will be waiting for you at the Student Center (with a big sign that says NW35) to take you to NW35, the newest dorm.

14:00—**Burton Conner**—Sports and Summer Fun -- You're never too old for pick-me-up sports and a slip-n-slide on a hot summer day! [burton-side bbq pits]

14:00—**Senior Haus**—LEARN TO TIRE SWING @ Senior Haus Courtyard. Our experts will show you how it's done. Don't worry, no one dies.

14:17—**Random Hall**—Cookies and Smut: Listen to the finest Viking romance novels and eat delicious warm chocolate chip cookies. Feel the horriblehorriblehorrible sensation of rivulets of chocolate dripping down your throat and learn about Odin's magnificent sword!

14:47—**Random Hall**—How to Conquer the World and Rule it Thereafter: Q.E.D.

15:00

15:00—**Baker House**—Tours of Baker: Another chance to check out Baker House before REX is over. Tour groups leave every 30 minutes on the hour and half hour. There will be snacks in the lobby, so drop by, grab a bite to eat, and chat with some upperclassmen about life at MIT. (Baker House Lobby)

15:17—**Random Hall**—Wikiraces: Quick! How many moves does it take to get from Vampire Watermelons to Godwin's Law?

15:47—**Random Hall**—Preten-

tious Music Wanking: Side effects may include life-changing spiritual experiences. Bach action figure included.

15:59—**EAsT camPUS**—HURRY UP AND ENTER THE HOUSING LOTTERY ALREADY SO WE DON'T HAVE TO LISTEN TO YOU WHINE LATER

16:00

16:00—**La Casa**—Carne Asada cookout. Come enjoy a mexican style bbq with tortillas, rice and beans.

16:17—**Random Hall**—Liquid Nitrogen Ice Cream: Don't try this at Harvard.

17:00

17:00—**New House**—Rock Band! (5-7 PM): One of the first things you'll learn here at MIT is that "Rock Band + Free Food = Awesome". Come enjoy the awesome at New House 5, and play 'til your fingers bleed!

18:00

18:30—**Dormitory Council**—Housing Lottery Closes - Make sure you fill out your form before the lottery closes!

20:00

20:00—**New House**—New House 5 Poker Night (8-10 PM): Join us in the New House 5 lounge for a friendly game of Texas Hold 'Em. No money necessary! Chips (of both the poker and nacho variety) and salsa will be provided.

21:00

21:00—**New House**—Breakfast, College-Style (9-10 AM): Come to New House 5 to enjoy our wide selection of cold cereals. Fill up a bowl with your childhood favorite, create a bold new blend of fruity and chocolaty, or just hang out in our lounge and argue over which mascot is the best.

22:00

22:00—**New House**—Desmond Movie Night 5/5 (10 PM): Our REX movie series concludes with "Goodfellas". Come watch it with us in the New House 5 lounge!

22:30—**Baker House**—Ice Cream Party: Just getting out of the event at the Student Center and going back to your dorm? Grab some ice cream at Baker House before you head back. (Baker House Dining Hall)

**Wednesday,
September 2, 2009**

09:00

09:00—**Baker House**—Grab breakfast at Baker House before you head out into the final day of REX. (Baker House Dining Hall)

09:30—**Burton Conner**—Breakfast -- Low blood sugar? Come to BC and we'll fix it. [tv lounge]

13:00

13:00—**New House**—House of Cards contest (1-2 PM): Put your engineering skills to the test! You have one hour and one deck of cards to out-build your peers. We promise it will be even more fun than a Course 2 p-set! Meet in the lounge in New House 5.

14:00

14:00—**New House**—Build a Playing-Card Launcher (2 PM - ?): Have you ever wanted to be

a card-throwing ninja? Do you dream of becoming a top-class engineer? Then come design your own playing-card launcher in the New House 5 lounge!

14:00—**McCormick Hall**—Tie Dye Fun. Let loose the Hippie within and have some psychedelic fun with tie dye.

18:00

18:30—**Dormitory Council**—Results of the Adjustment Lottery Available - Check web.mit.edu/housing/lottery to find out your housing assignment. ALL moves into permanent assignments will take place on Thursday, September 3rd.

**Thursday,
September 3, 2009**

09:00

09:00—**Dormitory Council**—Residence Hall Assignment Check Out and Check In - If you're moving out of your dorm you MUST check out of your old room and into your new room. Vans and transportation will be provided to help you move. More information will be available to you via email the night before.

17:00

17:30—**Dormitory Council**—House Meeting and Dorm Welcome - If you moved dorms in the lottery, it's time to get settled. Meet your Housemasters, GRTs and fellow residents. Be prepared for an entertaining evening. The MIT experience is largely about who you live with!

**"BASH.
MIT.EDU"**

Office of Student Citizenship
Division of Student Life
web.mit.edu/citizenship

w20-507

617-253-7848

Also offering
mediation
services, conflict
resolution and
programming.
contact
mediation@
mit.edu

You are responsible
for knowing the
information found
in this book.

Exclusively Online!

web.mit.edu/mindandhandbook

* SUGGESTIONS
ON HOW TO IMPROVE
THE MIND AND HAND BOOK?
EMAIL
SHENIKKI@MIT.EDU

SPORTS

Heavyweight Crew Competes in Henley Royal Regatta

By Lucas Goodman
TEAM MEMBER

T MIT's heavyweight eight traveled to Henley-on-Thames, England to compete in the Henley Royal Regatta on July 1–5. Tech defeated Molesey Boat Club to advance to the second round of the single elimination tournament, but the Engineers were knocked out by Brown University the next day, end-

ing Tech's season.

Tech entered into a field of twelve crews in the Ladies' Challenge Plate event, which was comprised of top universities and rowing clubs from both sides of the Atlantic. In the first round, MIT drew the crew from Molesey Boat Club, a top rowing center located ten miles to the west of London. This particular eight contained two rowers that won the coxed pair in the 1992 Olympics in Barcelona; the coxswain also had Olympic ex-

perience in the 1984 Los Angeles games.

Once the race started, Tech immediately charged to a lead of just under a length. MIT maintained this lead throughout the majority of the 2,112 meter race, but Molesey put together a strong move before the one mile mark. At its tightest, Tech's bow was only a few meters ahead of their British opponent. In the end, MIT was able to hang on to this lead and extend it in the final few strokes

to win with a final margin of one third of a length.

The next day, MIT faced a tough matchup against the Eastern Sprints champion, Brown University. Brown held nothing back during the race and led from wire to wire with the outcome never in doubt; two-and-a-half lengths was the final verdict. In the ensuing days, Brown went on to defeat two top British crews, including the Under-23 National Team, to win the Ladies' Challenge Plate.

In addition to the first eight, Tech sent two other rowers along on the trip as spares. These spares competed in the "spare pair" race held in Henley before the Royal Regatta. The pair, made up of rising sophomores John C. Busche '12 in bow

and Christopher M. Jones '12 in stroke, easily dispatched the pairs from Princeton University's lightweight team, Bates College, and Gonzaga College High School to win the event.

The Henley Royal Regatta marked a successful conclusion to an extraordinary season. MIT's eight defeated Princeton University in the Compton Cup for the first time since 1975, and Tech finished 12th out of 18 at the Eastern Sprints Regatta, better than any year in recent memory. The Engineers will look to build upon this record in the 2009–10 season on the backs of a strong class of rising sophomores.

The lineup of the varsity eight was (bow) Lucas W. Goodman '11, (2) David P. Jenicek '09, (3) Steven A. Wesel '12, (4) Kevin M. Kelley '09, (5) James T. Stenard '09, (6) Thomas A. Larsen '09, (7) William R. Nolan '09, (stroke) Luke S. Urban '09, (coxswain) Stephen F. Young '09.

20.102 Metakaryotic Biology and Macroepidemiology

(3-0-9) Prereq.: 18.01
TR 1:00-2:30 (Meets with 20.215)
56-614
W.G.Thilly <thilly@mit.edu>

This course explores the new paradigm of *metakaryotic* stem cell biology as the driving force underlying age specific clonal diseases, such as cancers, that account for some 75% of deaths in present day America.

Key to this new field was the discovery at MIT of a bizarre amitotic stem cell lineage that arises from embryonic stem cells about the fifth week of human gestation and drives fetal/juvenile organogenesis, carcinogenesis and, apparently, atherogenesis. These *metakaryotic* cells do not condense DNA in chromosomes before nuclear fission as in mitosis in *eukaryotic* cells but copy their DNA post-fission after amitotic segregation into single stranded DNA genomic copies. Direct measurements of clusters of mutations in human lungs have associated very high mutation rates with metakaryotic stem cell doublings during the fetal/juvenile period. This metakaryotic mutator phenotype has been further associated with two error-prone DNA polymerases and seems to account for the phenomena of tumor initiation in normal metakaryotic stem cells. Biologically based cascade models of carcinogenesis and atherogenesis have been developed, now incorporating the known elements of metakaryotic biology. U.S. age-specific disease mortality data have been collected and organized from 1890-2006

<http://epidemiology.mit.edu>. With these tools students will explore the roles of inherited and environmental risks in a "clonal" disease of his or her choice.

[20.104, Spring, 2010, will address potential means to slow the growth or kill pathogenic metakaryotic stem cells and to reduce their rates of mutation in the fetal/juvenile period.]. Enrollment limited to 24 students.

LEGAL COUNSEL

MIT students, family, employers and start-ups seeking U.S. legal counsel, campus or office consultation. Call:

James Dennis Leary, Esq.
321-544-0012

got sperm?

SPERM DONORS NEEDED

Up to \$1100 a month!

Healthy MEN in college or with a college degree wanted for our sperm donor program.

Minimal time commitment

Help people fulfill their dreams of starting a family.

Receive free health and genetic screenings.

APPLY ONLINE:

www.SPERMBANK.com

Not a member of MIT Federal Credit Union yet?

Enjoy the benefits of an exclusive credit union.



To open your account or for more information, visit us on campus, call or go online:

- MIT Student Center 84 Massachusetts Ave. - Technology Square 700 Technology Sq.
- 617.253.2845
- www.mitfcu.org



Federally insured by NCUA